PRINTER RUSH
(PTO ASSISTANCE)

Application :	09/823,142	**Examiner :**	LY	**GAU :**	2667
From:	MWD	**Location:**	(IDC) FMF FDC	**Date:**	12/14/05

Tracking #: EPM-09/823,142 Week Date: 12/12/05

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW		☐ Fees
☐ SRFW		☐ Other
☑ DRW	3-29-01	
☐ OATH		
☐ 312		
☐ SPEC		

[RUSH] **MESSAGE:** ATTN: Chief Draftsperson

(1.) The drawings contain illegible data. Please advise.

Thanks

[XRUSH] **RESPONSE:** (CORRECTED DRAWINGS SEE ATTACHMENT 12-21-05)

INITIALS: JDC

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

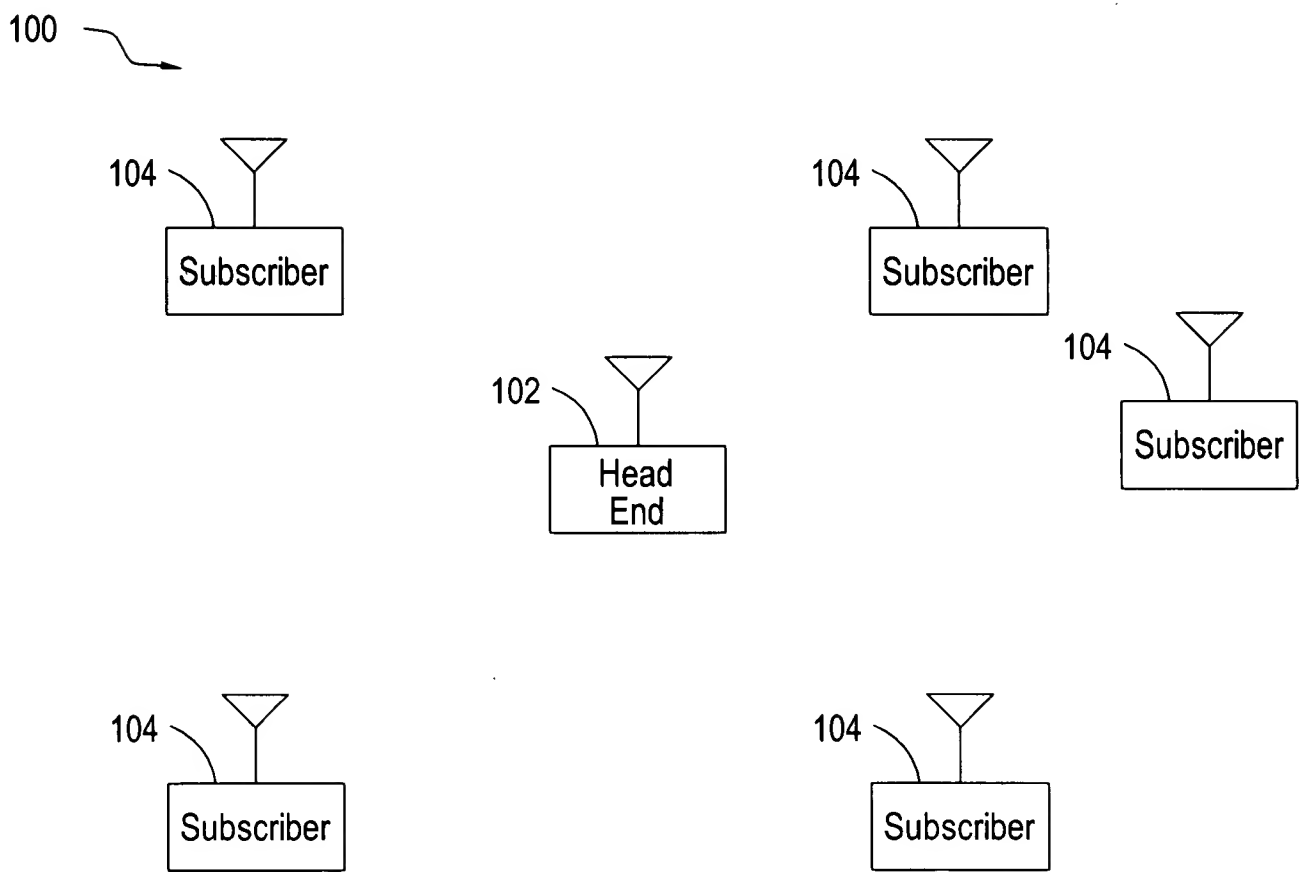
100
104
Subscriber
104
Subscriber
102
Head
End
104
Subscriber
104
Subscriber
104
Subscriber

FIG. 1

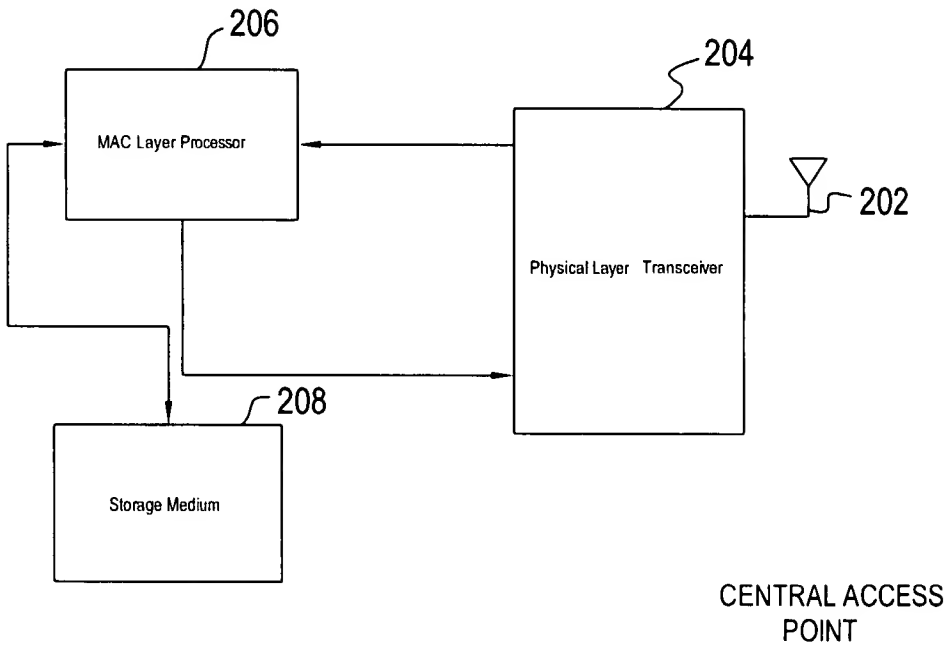
206
MAC Layer Processor
204
Physical Layer Transceiver
202
208
Storage Medium
CENTRAL ACCESS POINT

FIG. 2

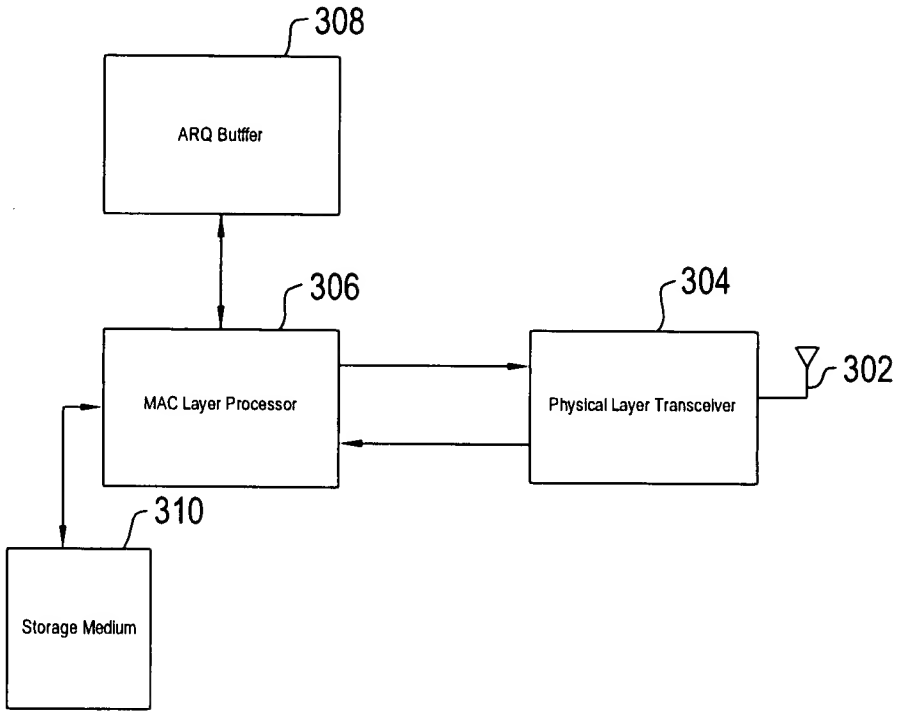

FIG. 3

SUBSCRIBER UNIT

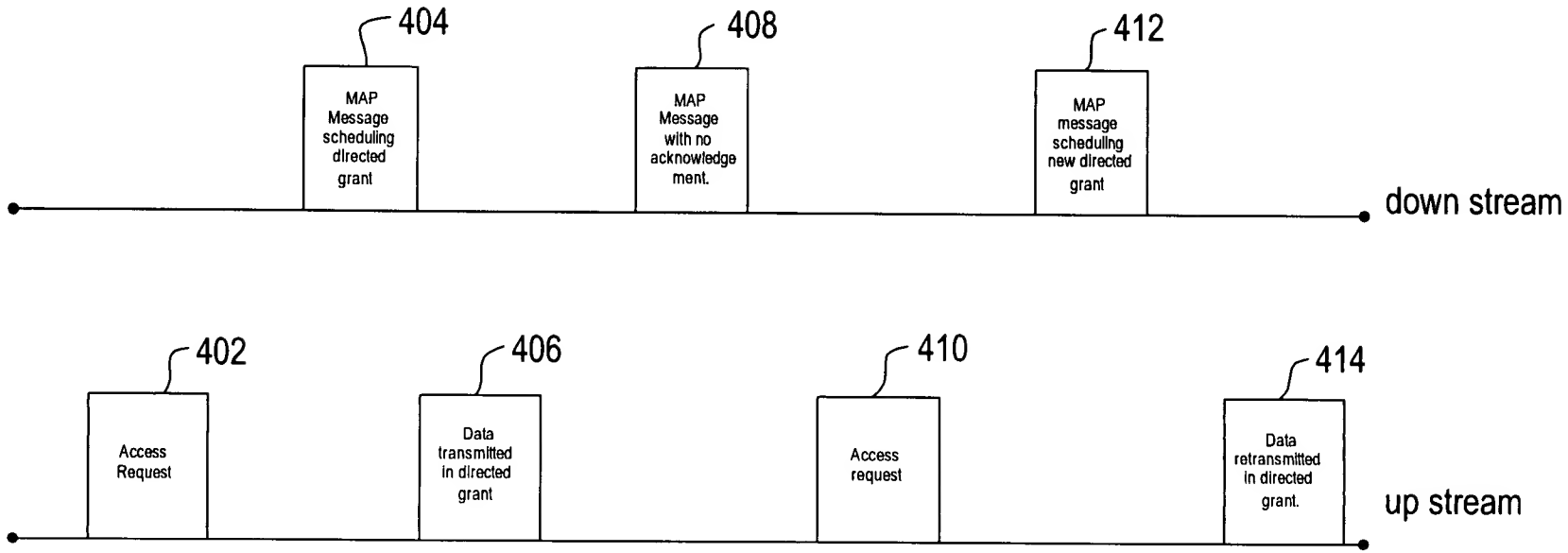
404
408
412
MAP Message scheduling directed grant
MAP Message with no acknowledge ment.
MAP message scheduling new directed grant
down stream
402
406
410
414
Access Request
Data transmitted in directed grant
Access request
Data retransmitted in directed grant.
up stream

FIG. 4

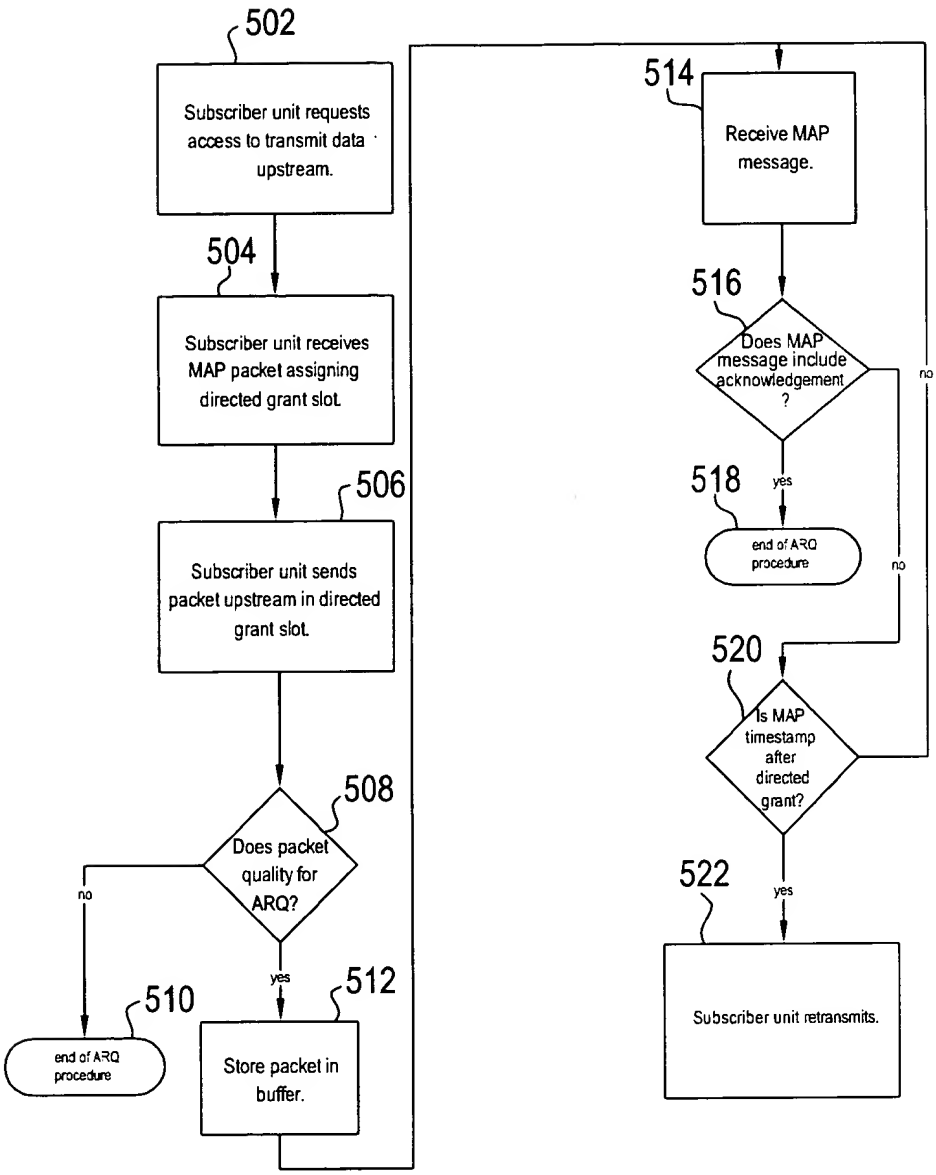
502
Subscriber unit requests access to transmit data upstream.
504
Subscriber unit receives MAP packet assigning directed grant slot.
506
Subscriber unit sends packet upstream in directed grant slot.
508
Does packet quality for ARQ?
no
yes
510
end of ARQ procedure
512
Store packet in buffer.
514
Receive MAP message.
516
Does MAP message include acknowledgement ?
yes
no
518
end of ARQ procedure
no
520
Is MAP timestamp after directed grant?
yes
522
Subscriber unit retransmits.

FIG. 5

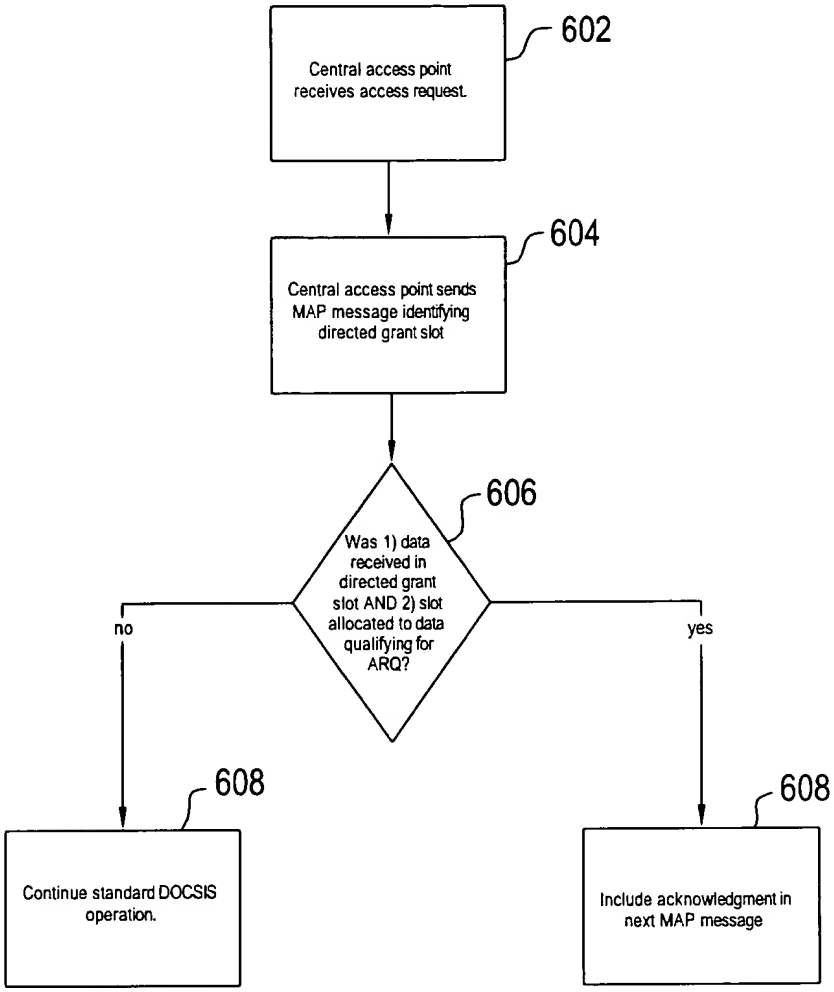
602
Central access point receives access request.
604
Central access point sends MAP message identifying directed grant slot
606
Was 1) data received in directed grant slot AND 2) slot allocated to data qualifying for ARQ?
no
yes
608
Continue standard DOCSIS operation.
608
Include acknowledgment in next MAP message

FIG. 6